Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-4. (Canceled)

5. (Currently amended) The <u>composition polypeptide</u> according to claim 48, wherein the EGF_like repeat comprises at least one <u>polypeptide</u> repeat consisting of <u>the amino acid sequence set forth in SEQ ID NO:26CX₃CX₅CXCX₈CX₄ where C is cysteine and X is any amino acid.</u>

6-7. (Canceled)

8. (Currently amended) A composition for maintaining pluripotency without differentiating a stem cell, comprising:

an isolated polypeptide having a WIF domain and an EGF-like repeat; and an isolated stem cell survival agent that is selected from the group consisting of stem cell factor (SCF), Flt-3 ligand (FL) and thrombopoietin (TPO).

wherein the polypeptide having said WIF domain comprises a polypeptide selected from the group consisting of:

(a) a polypeptide consisting of the amino acid sequence set forth in SEQ ID NO:4,

(b) a WIF domain polypeptide consisting of a sequence of at least 100, 110, 120, 130, 140 or 150 amino acids of the amino acid sequence set forth in SEQ ID NO:4, wherein said WIF domain polypeptide is capable of maintaining pluripotency of a stem cell without differentiating the stem cell.

(c) a WIF domain polypeptide comprising an amino acid sequence that is derived from the amino acid sequence set forth in SEQ ID NO:4 by substitution, deletion or addition of 1 to 10 amino acids therein, wherein said WIF domain polypeptide is capable of maintaining pluripotency of a stem cell without differentiating the stem cell, and

(d) a WIF domain polypeptide comprising an amino acid sequence that is derived from the polypeptide of (b) by substitution, deletion or addition of 1 to 10 amino acids therein, wherein said WIF domain polypeptide is capable of maintaining pluripotency of a stem cell without differentiating the stem cell.

9-11. (Canceled)

12. (Original) The composition according to claim 8, wherein the stem cell survival agent is stem cell factor (SCF).

13-86. (Canceled)

- 87. (New) The composition of claim 8, wherein the stem cell is a hematopoietic stem cell.
- 88. (New) A method of maintaining pluripotency of a stem cell without inducing differentiation, comprising:
- (1) providing, to a stem cell, an isolated polypeptide having a WIF domain and an EGF-like repeat, wherein the polypeptide having said WIF domain comprises a polypeptide selected from the group consisting of:
- (a) a polypeptide consisting of the amino acid sequence set forth in SEQ ID NO:4,
- (b) a WIF domain polypeptide consisting of a sequence of at least 100, 110, 120, 130, 140 or 150 amino acids of the amino acid sequence set forth in SEQ ID

NO:4, wherein said WIF domain polypeptide is capable of maintaining pluripotency of a stem cell without differentiating the stem cell,

- (c) a WIF domain polypeptide comprising an amino acid sequence that is derived from the amino acid sequence set forth in SEQ ID NO:4 by substitution, deletion or addition of 1 to 10 amino acids therein, wherein said WIF domain polypeptide is capable of maintaining pluripotency of a stem cell without differentiating the stem cell, and
- (d) a WIF domain polypeptide comprising an amino acid sequence that is derived from the polypeptide of (b) by substitution, deletion or addition of 1 to 10 amino acids therein, wherein said WIF domain polypeptide is capable of maintaining pluripotency of a stem cell without differentiating the stem cell; and
- (2) providing, to the stem cell of (1), an isolated stem cell survival agent that is selected from the group consisting of stem cell factor (SCF), Flt-3 ligand (FL) and thrombopoietin (TPO), and thereby maintaining pluripotency of the stem cell without inducing differentiation.
- 89. (New) The method of claim 88, wherein the stem cell survival agent is stem cell factor (SCF).
- 90. (New) The method of claim 88, wherein the stem cell is a hematopoietic stem cell.